

# Live Streaming

Presented by UWM Tech Team



# Opening Prayer





# Our Purpose

We serve the greater Unity community by providing relevant content to the technological challenges at hand.

Technical Skill

# A Matter of Learning and Practicing

[unitytechteam.org](http://unitytechteam.org)

We support and train Unity field ministries in matters of technology.



<https://www.facebook.com/groups/unitytechteam>

# Unity Tech Team

Public group · 1 member

Joined ▼ + Invite

- About
- Discussion
- Topics
- Members
- Events
- Media



Write something...



Live video



Photo/video



Poll

Continue setting up your group ✕

2 of 4 steps completed

Customize your group and attract new members in a few steps.



# Our Team



Rev. Jean-Marie Schweizer  
Unity Fort Worth, TX



Owen Howson  
Unity of New Braunfels, TX



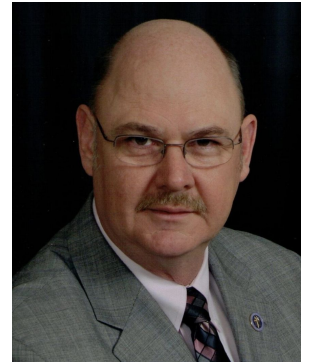
Sean Sweet  
Unity Church of Hawai'i, HI



Eldon Berry  
Unity Fort Worth, TX



Lane Smith  
Unity Fort Worth, TX



Randy Fillmore  
Unity of Melbourne, FL

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# Outline

Live Streaming Basics

Special Applications

Profiles

Q&A

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# Importance of Audio Quality

Owen Howson (Unity of New Braunfels)





# General considerations

- A good audio quality is more important than the quality of the video.
- We are generally attuned to excellent audio and video quality from watching TV, movies, etc.
- Investing in quality audio equipment should be a priority.
- The question of analog versus digital audio is not as relevant as one may think.



# Tips to ensure quality audio

- Monitor your live stream sound separately with quality headphones or speakers.
- Use a separate audio mixer for your live stream.
- Use direct line from house audio mixer to live stream audio mixer.
- For audience reactions, use a shotgun mic (connected to live stream audio mixer).



Shure BLX14/CVL - \$329.00  
<https://amzn.to/3GZv6QO>



JK MIC-J 071S - \$46.00  
<https://amzn.to/3gWbceM>



Shure BLX288/SM58 - \$649.00  
<https://amzn.to/351LTWj>



OneOdio - \$33.99  
<https://amzn.to/3JzJ7q0>



Countryman Isomax 4RF - \$319.00  
<https://bhpho.to/3JvF6TF>



Rode NTG3B - \$575.00  
<https://amzn.to/3LEpf77>



Yamaha MG12XU - \$359.99  
<https://amzn.to/3gTwtWy>

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# Cameras & Lighting

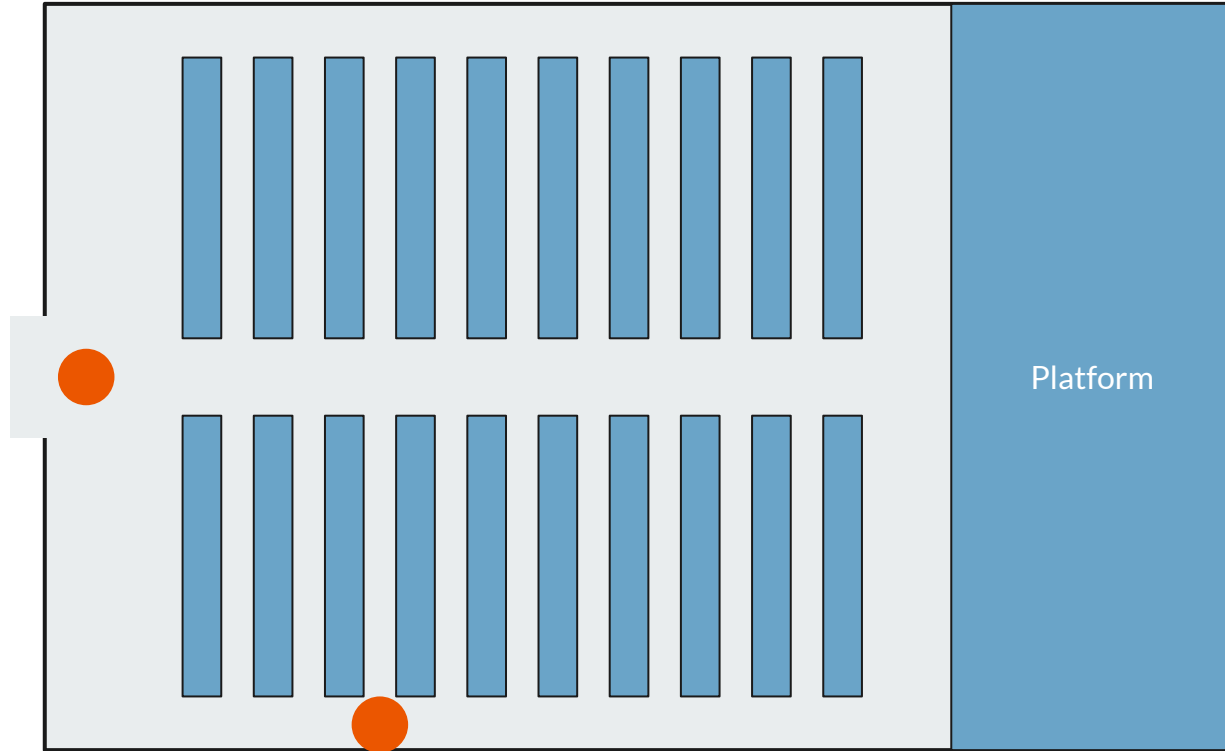
Owen Howson (Unity of New Braunfels)

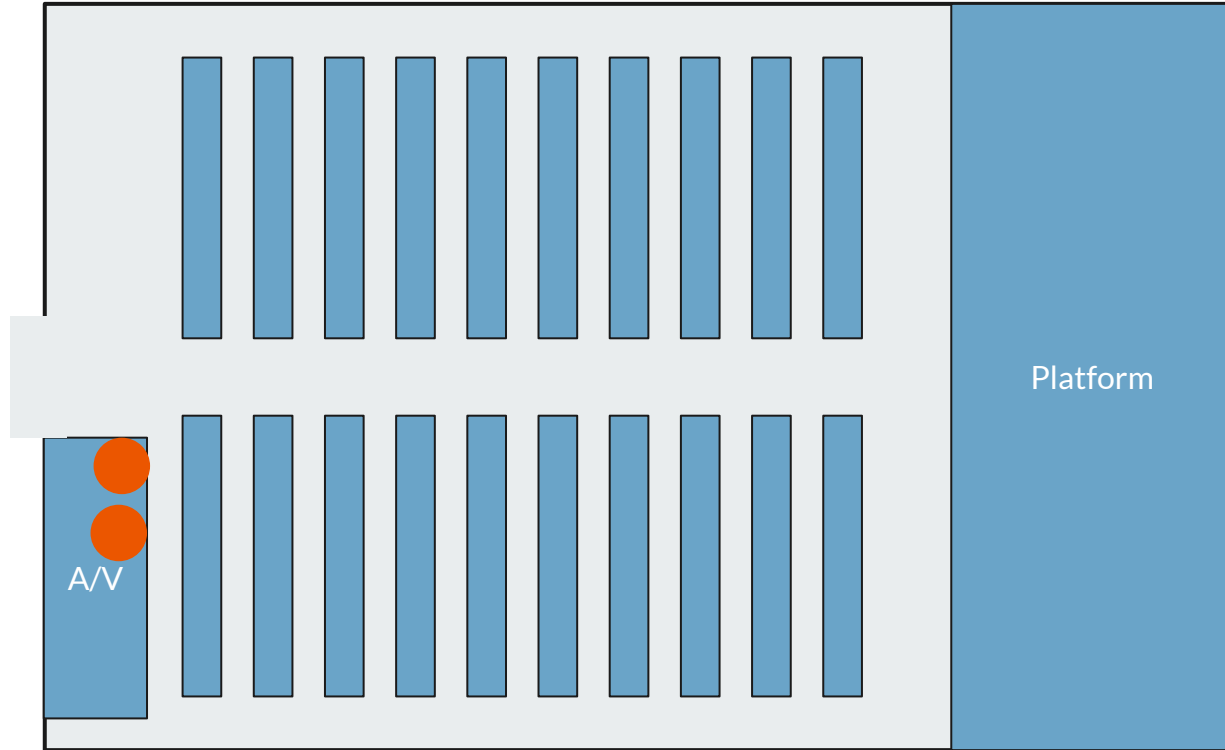
Eldon Berry (Unity Fort Worth)



# General considerations

- Consider volunteer availability (hand or remote operation).
- Consider positioning of cameras.
- Ensure a minimum of 20x optical zoom (for medium shot) for main cameras.
- HDMI or SDI output.
- Invest in a fluid-head tripod.
- Consider remote control for zoom (for hand-operated cameras).







HDMI-to-HDMI  
up to 30 feet



BM SDI-to-HDMI - \$65.00  
<https://amzn.to/3oV5A9c>



SDI-to-HDMI  
30-300 feet



Blackmagic ATEM Mini Pro - \$495.00  
<https://amzn.to/3s46ORH>



# Tips on Lighting

- More light = better quality of image and focus
- Avoid backlighting (e.g. windows, bright lights, etc.)
- Invest in inexpensive LED movie lights.



GVM LED 800D - \$359.00  
<https://amzn.to/3BsMV9L>



PTZOptics 20X SDI – \$1,789.00  
<https://amzn.to/3BqChvt>



Mevo Plus – \$639.99  
<https://amzn.to/3gRNcJZ>



iPhone 13 Plus – \$999.00  
<https://apple.co/3rU1S1k>



MOKOSE Mini SDI – \$89.95/\$118.50  
<https://amzn.to/3rVOYbw>



Canon VIXIA HF G50 4K30P – \$1,099.00  
<https://amzn.to/3LVMUjJ>



Cayer BV25LH Video Tripod – \$221.96  
<https://amzn.to/355KKwM>



Manfrotto Video Head – \$199.88  
<https://amzn.to/3JEhVq6>

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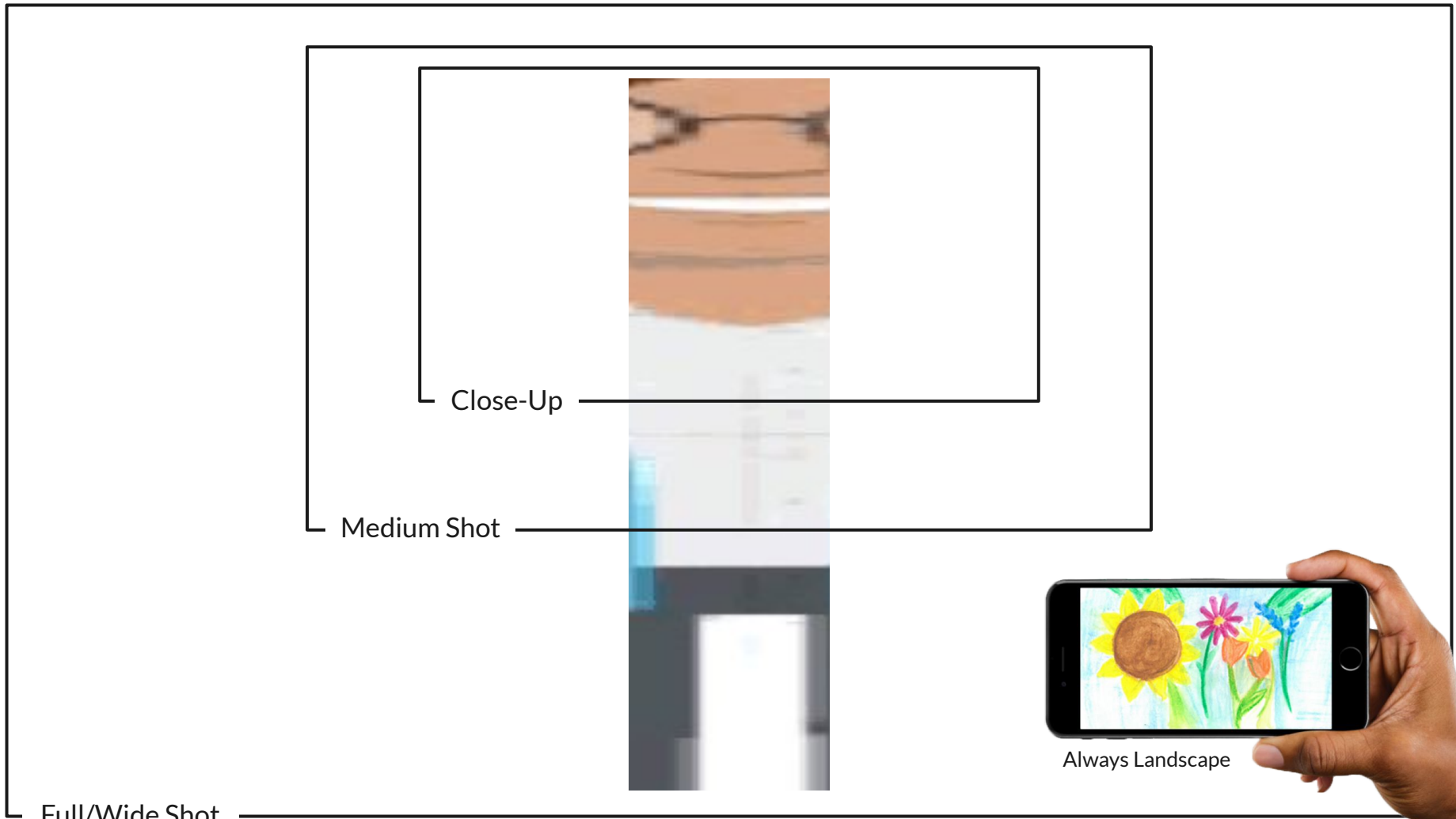
# Framing & Graphics

Randy Fillmore (Unity of Melbourne)



# Framing

- Shots: full/wide, medium, close-up
- Rule of thirds
- Safe space
- Split screen
- Picture-in-Picture



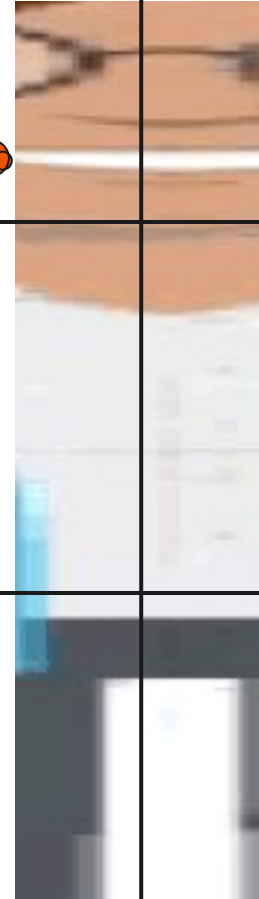
Close-Up

Medium Shot

Full/Wide Shot

Always Landscape

*I like to be  
composed along  
the rule of 3rds.*

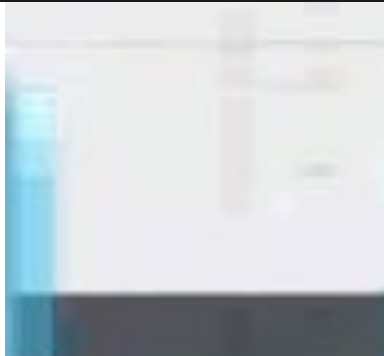




*Too much  
headroom!*



*Hey! Don't lose  
me! Too much  
to the left!*





*Hello! My eyes  
are down here!*



HD Action Safe

HD Title Safe

SD 4x3 Title  
Safe

Safe Space









Let there be peace on earth,  
the peace that was meant to be.



the thinker  
is the thoughts

**I think (and feel)**

**I AM**

**I pray**

**I do**

**God Is**





I am the thinker  
who thinks the thoughts



Let there be peace on earth,  
the peace that was meant to be.



THANKS  
FOR  
JOINING  
US



# Graphics

- Enough vs. Too Much
- Overlays
- Lower Thirds
- Split screen
- Picture-in-Picture



If you are joining us for the 1<sup>st</sup> time

*A positive path  
for spiritual living*

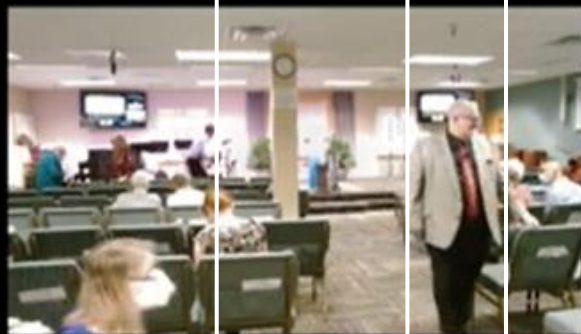


Say "Hello" in the Chat/Comments

Our service begins in

**03:58**

  
unity<sup>®</sup>  
of Melbourne




"Superhero"  
Daniel Nahmod & Nimo Patel  
[emptyhandsmusic.org](http://emptyhandsmusic.org)



Welcome to   
**unity**®  
Fort Worth



Experience the Silence



If every man in the world  
Had his mind set on freedom

If every man in the world  
Had his mind set on freedom



Rev Faith Cotter

Today's Featured Guest Minister

—John 8:28



  
Fort Worth

## When All Else Fails

*Rev. Jean-Marie Schweizer*

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# Special Applications

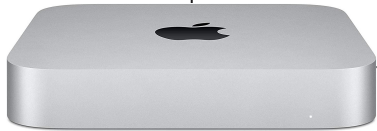
Eldon Berry (Unity Fort Worth)



Logitech C922x Pro - \$91.59  
<https://amzn.to/34JisN6>



Pengo 4K Capture Card - \$145.99  
<https://amzn.to/3gUbF14>



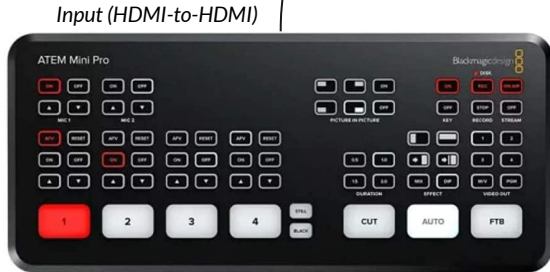
Apple Mac Mini M1 - \$549.00  
<https://amzn.to/359ouSQ>



BM Web Presenter HD - \$509.00  
<https://amzn.to/3sRkbUo>



# ProPresenter®



Blackmagic ATEM Mini Pro - \$495.00  
<https://amzn.to/3s46ORH>



Apple Mac Mini M1 - \$549.00  
<https://amzn.to/359ouSQ>



Output (USB-to-USB)





Apple Mac Mini M1 – \$549.00  
<https://amzn.to/359ouSQ>

USB-to-USB



Focusrite Scarlett 4i4 3G – \$239.99  
<https://amzn.to/3h9xCJI>



Audio-Technica BPHS1 – \$130.49  
<https://amzn.to/3JLv8xz>

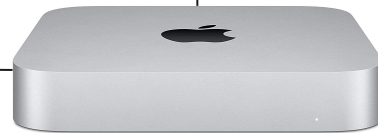
1/4"-to-1/8"



Blackmagic ATEM Mini Pro – \$495.00  
<https://amzn.to/3s46ORH>



ProPresenter®



Apple Mac Mini M1 – \$549.00  
<https://amzn.to/359ouSQ>

Output (USB-to-USB)

Input (1/4"-to-XLR)

Output (XLR-to-(1/4"))



Allen & Heath GL2400 – \$2,499.00  
<https://amzn.to/3t2OVBE>

Content





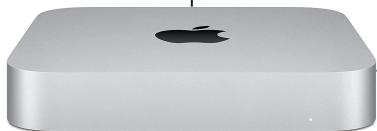
Apple TV 4K - \$149.99  
<https://amzn.to/34MihMI>



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<https://amzn.to/359ouSQ>



Blackmagic ATEM Mini Pro - \$495.00  
<https://amzn.to/3s46ORH>



Apple iPad - \$499.00  
<https://amzn.to/3GW1MuG>



PTZOptics 20X SDI - \$1,789.00  
<https://amzn.to/3BqcHvt>

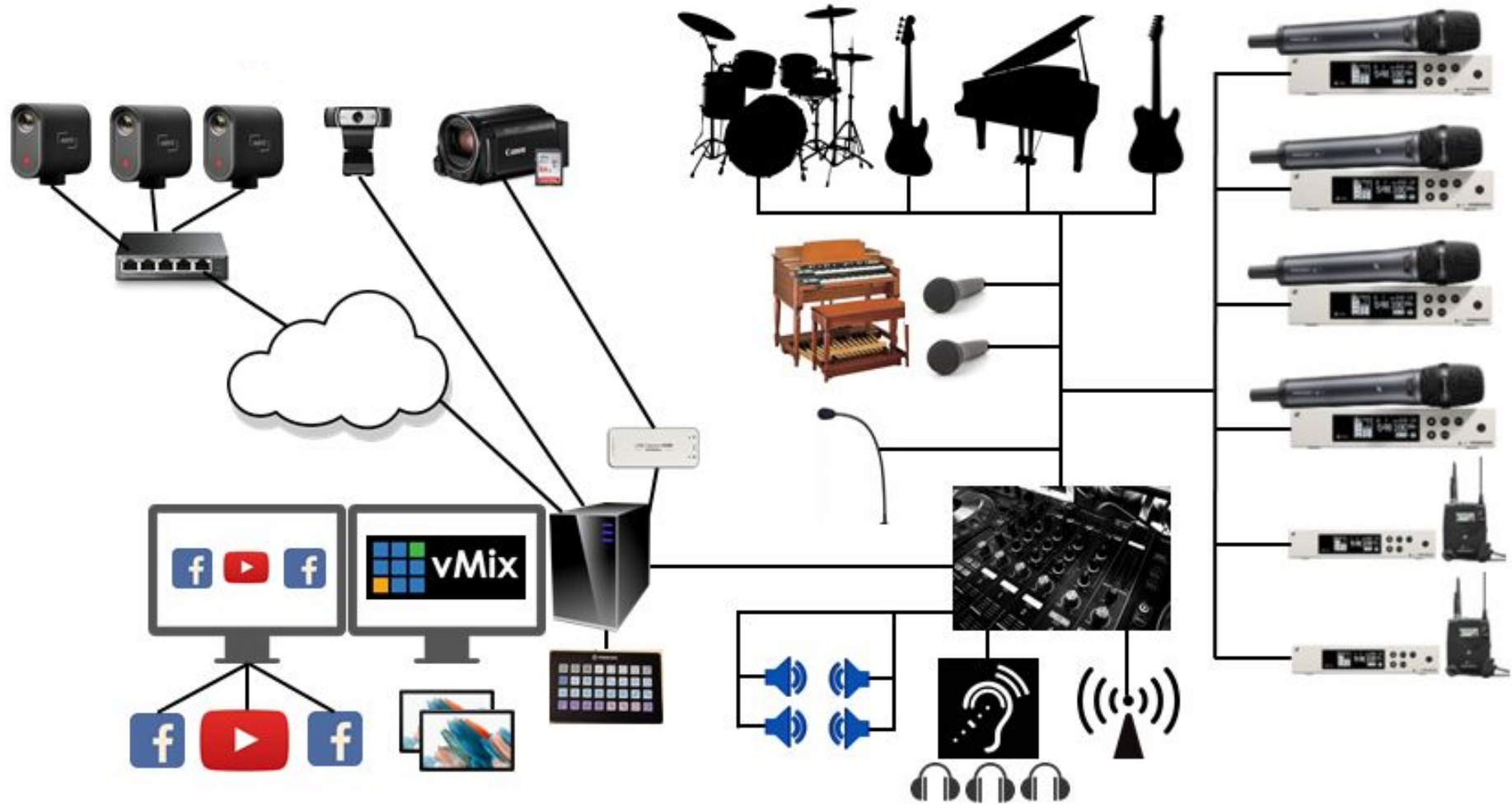
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# Profile Presentations

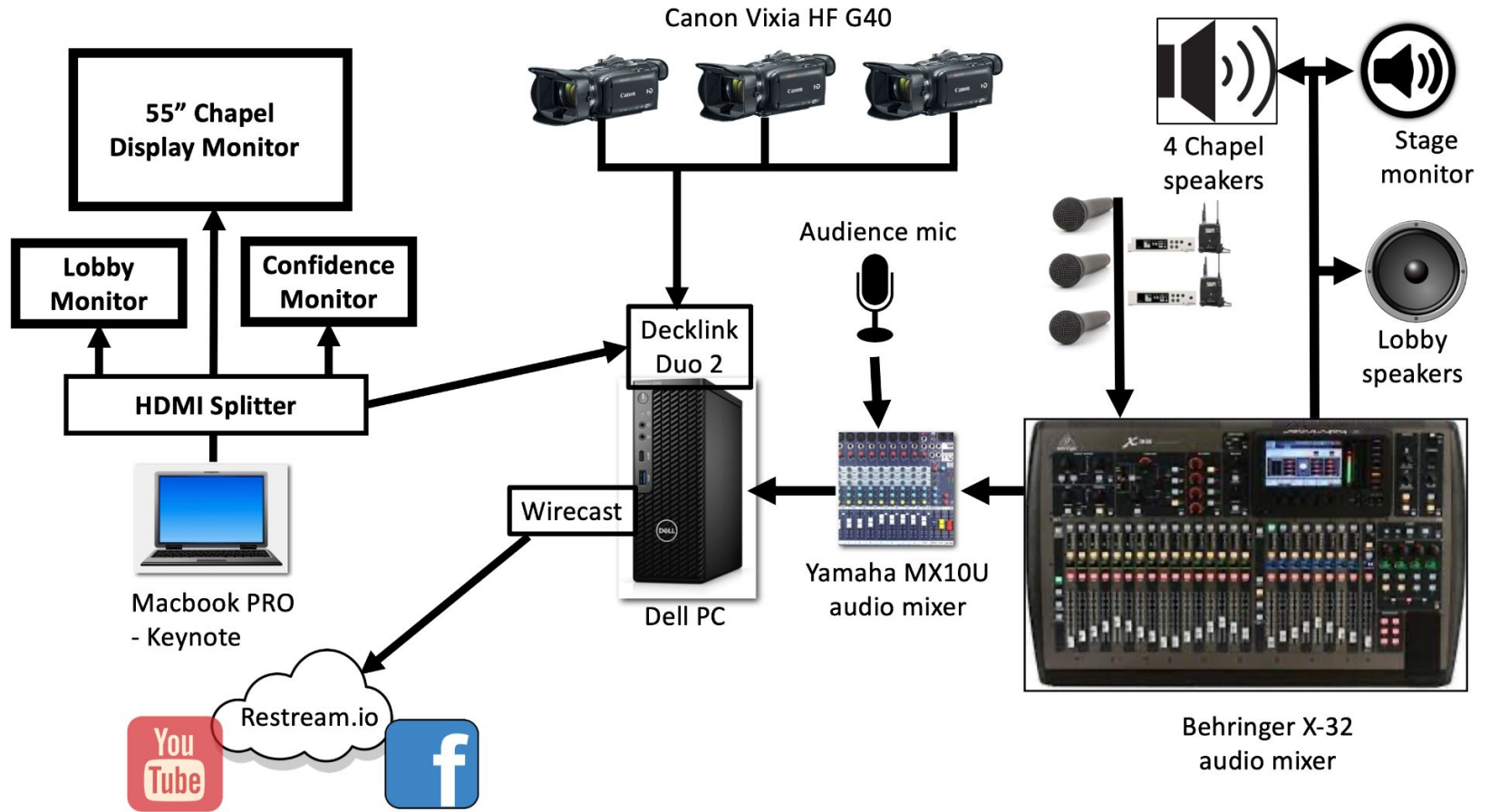
Randy Fillmore (Unity of Melbourne)

Owen Howson (Unity of New Braunfels)

Eldon Berry (Unity Fort Worth)









Unity of New Braunfels, TX





Zoom

ATEM Multiview

Piano shot

PTZ remote control

Service plan

ProPresenter

Audience shot

Live stream backup



Live stream view

like a bride waiting for her groom  
 we'll be a church ready for You  
 00:11:05 | 10:08 AM

Stage monitor

Drawing from pulpit

Restream.io



  
**ProPresenter**



Unity Fort Worth, TX (Video)

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# Q&A

Randy Fillmore (Unity of Melbourne)

Owen Howson (Unity of New Braunfels)

Eldon Berry (Unity Fort Worth)

Rev. Jean-Marie Schweizer (Unity Fort Worth)

almost

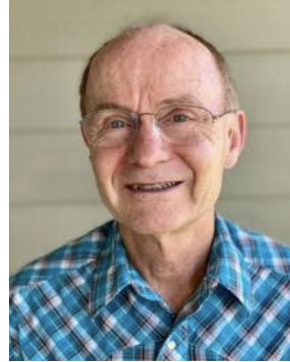
That's all Folks!



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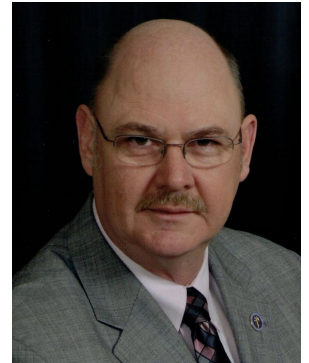
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Public group · 1 member

Joined ▼ + Invite

About Discussion Topics Members Events Media



Write something...

Live video

Photo/video


Poll

Continue setting up your group ✕

2 of 4 steps completed

Customize your group and attract new members in a few steps.





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Presented by UWM Tech Team

*Thank you for  
joining us!*

